H-ZBaF5 671473

n_d = 1.67103	υ_d = 47.29	$n_F - n_C$ = 0.014190
n_e = 1.67440	υ_e = 46.99	$n_{F'} - n_{C'}$ = 0.014353

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	
n_t	1013.98	
n_s	852.11	
$n_{A'}$	768.19	
n_r	706.52	1.66441
n_C	656.27	1.66679
$n_{C'}$	643.85	1.66745
n_{He-Ne}	632.80	1.66808
n_D	589.29	1.67090
n_d	587.56	1.67103
n_e	546.07	1.67440
n_F	486.13	1.68098
$n_{F'}$	479.99	1.68181
n_g	435.84	1.68897
n_h	404.66	1.69576
n_i	365.01	1.70771

Constants of Dispersion Formula	
A_0	2.73001250E+00
A_1	-8.62342957E-03
A_2	2.17479143E-02
A_3	1.84221782E-04
A_4	2.98785909E-05
A_5	3.68808076E-07

Relative Partial Dispersions			
$P_{d,C}$	0.2988	$P'_{d,c'}$	0.2493
$P_{e,d}$	0.2375	$P'_{e,d}$	0.2347
$P_{g,F}$	0.5631	$P'_{g,F'}$	0.4986

Chemical Properties (grade)	
RC(S)	1
RA(S)	3
D_W	1
D_A	2
R_{OH}(S)	2
RP(S)	2

Thermal Properties	
Tg(℃)	583
Ts(℃)	652
$T_{10}^{14.5}$(℃)	540
T_{10}^{13}(℃)	580
$\alpha_{-50/80℃}$(10^{-7}/K)	71
$\alpha_{100/300℃}$(10^{-7}/K)	94

Mechanical Properties	
HK(10^7Pa)	626
F_A	140
E(10^7Pa)	9696
G(10^7Pa)	3807
μ	0.273
B(nm/cm/10^5Pa)	2.120

Density	
ρ (g/cm^3)	3.58

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0004
$\triangle P_{g,F}$	-0.0020
$\triangle P_{C,t}$	
$\triangle P_{C,s}$	

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.943	0.889
2200	0.971	0.942
2000	0.986	0.972
1800	0.992	0.984
1600	0.998	0.997
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
900	0.998	0.997
850	0.998	0.996
800	0.995	0.991
750	0.995	0.991
700	0.995	0.990
650	0.995	0.990
600	0.994	0.989
550	0.994	0.989
500	0.992	0.985
480	0.991	0.983
460	0.990	0.980
440	0.988	0.976
420	0.985	0.971
400	0.976	0.953
390	0.964	0.930
380	0.941	0.886
370	0.890	0.800
360	0.790	0.630
350	0.580	0.340
340	0.230	0.060
330		
320		
310		
300		
290		
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.8	3.3	3.4	3.6	4.0	4.5	5.1
-20 ~ 0	3.2	3.6	3.6	3.8	4.1	4.6	5.2
0 ~ 20	3.3	3.8	3.8	4.0	4.2	4.7	5.3
20 ~ 40	3.4	4.1	4.0	4.2	4.3	4.8	5.4
40 ~ 60	3.4	4.2	4.2	4.3	4.4	4.9	5.6
60 ~ 80	3.5	4.4	4.4	4.5	4.5	5.0	5.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	